



LOGO! DM16 24R, EXP. MODULE, PU/I/O: 24V DC/24V DC/RELAY, 8 DI/8 DO, 4TE FOR LOGO! 8

Installation type/mounting	
Mounting	on 35 mm DIN rail, 4 spacing units wide
Supply voltage	
24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Digital inputs	
Number of digital inputs	8
Input voltage	
<ul style="list-style-type: none"> <li>Type of input voltage</li> </ul>	DC
<ul style="list-style-type: none"> <li>for signal "0"</li> </ul>	< 5 V DC
<ul style="list-style-type: none"> <li>for signal "1"</li> </ul>	> 12 V DC
Input current	
<ul style="list-style-type: none"> <li>for signal "0", max. (permissible quiescent current)</li> </ul>	0.85 mA
<ul style="list-style-type: none"> <li>for signal "1", typ.</li> </ul>	3.5 mA
Input delay (for rated value of input voltage)	
for standard inputs	
<ul style="list-style-type: none"> <li>at "0" to "1", max.</li> </ul>	1.5 ms
<ul style="list-style-type: none"> <li>at "1" to "0", max.</li> </ul>	1.5 ms
Digital outputs	
Number of digital outputs	8; Relays
Short-circuit protection	No
Controlling a digital input	Yes
Switching capacity of the outputs	
<ul style="list-style-type: none"> <li>Lamp load, max.</li> </ul>	1 000 W
Output current	

• for signal "1" rated value	5 A
<b>Parallel switching of 2 outputs</b>	
• for uprating	No
<b>Switching frequency</b>	
• with resistive load, max.	2 Hz
• with inductive load, max.	0.5 Hz
• mechanical, max.	10 Hz
<b>Relay outputs</b>	
<b>Switching capacity of contacts</b>	
— with inductive load, max.	3 A
— with resistive load, max.	5 A
<b>EMC</b>	
<b>Emission of radio interference acc. to EN 55 011</b>	
• Emission of radio interference acc. to EN 55 011 (limit class B)	Yes
<b>Degree and class of protection</b>	
IP20	Yes
<b>Standards, approvals, certificates</b>	
CSA approval	Yes
UL approval	Yes
FM approval	Yes
developed in accordance with IEC 61131	Yes
acc. to VDE 0631	Yes
<b>Marine approval</b>	
• Marine approval	Yes
<b>Ambient conditions</b>	
<b>Operating temperature</b>	
• min.	0 °C
• max.	55 °C
<b>Dimensions</b>	
Width	71.5 mm
Height	90 mm
Depth	58 mm
<b>last modified:</b>	21.08.2014